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Uchino et al. (43) Pub. Date: Apr. 3, 2003(54) WONDER GENERATOR, DIGITAL LINE TESTER COMPRISING THE SAME, AND PHASE NOISE TRANSFER CHARACTERISTIC ANALYZERJan. 14, 2000 (JP) 2000/6642
Jun. 14, 2000 (JP) 2000178183
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(75) Inventors: Masaharu Uchino, Kanagawa (JP); Kazuhiko Ishibe, Kanagawa (JP); Takashi Aoki, Kanagawa (JP)

Correspondence Address:
Frishauf Holtz Goodman
Langer & Chick
25th Floor
767 Third Avenue
New York, NY 10017-2023 (US)

(73) Assignee: Anritsu Corporation, Tokyo (JP)

(21) Appl. No.: 09/890,441

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(86) PCT No.: PCT/JP00/09139

(30) Foreign Application Priority Data

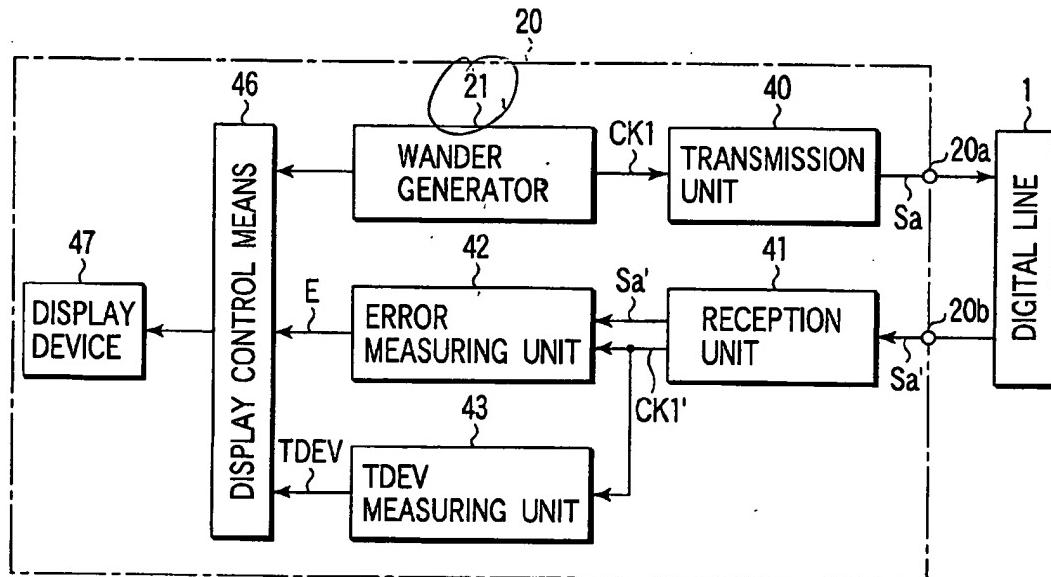
Dec. 24, 1999 (JP) 11367209

Publication Classification

(51) Int. Cl. 7 H04Q 1/20; H04B 3/46;
H04B 17/00
(52) U.S. Cl. 375/226

(57) ABSTRACT

A wander generator has a random number signal generator unit, a filter unit, a clock generator unit, a modulator unit, and a setting unit. The random number generator unit sequentially generates random number signals comprised of a plurality of bits at a constant speed in accordance with a predetermined algorithm. The filter unit receives a random number signal sequence generated by the random number signal generator unit for filtering. The clock generator unit generates a clock signal. The modulator unit modulates the frequency of clock signal generated by the clock generator unit with a signal output from the filter unit. The setting unit applies the filter unit with a signal for setting each amplitude value of a spectrum of a signal sequence output from the filter unit.





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(19) United States

(12) Patent Application Publication

Ishibe et al.

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(54) WANDER GENERATOR HAVING
ARBITRARY TDEV MASK
CHARACTERISTIC SETTING APPARATUS

(75) Inventors: Kazuhiko Ishibe, Kanagawa-ken (JP);
Tetsuya Tada, Yokohama-shi (JP)

Correspondence Address:
FRISHAUF, HOLTZ, GOODMAN &
LANGER & CHICK, PC
767 THIRD AVENUE
25TH FLOOR
NEW YORK, NY 10017-2023 (US)

(73) Assignee: Anritsu Corporation, 5-10-27, Minami-
azabu, Tokyo (JP)

(21) Appl. No.: 09/881,926

(22) Filed: Jun. 14, 2001

(30) Foreign Application Priority Data

Jun. 20, 2000 (JP) 2000-184962

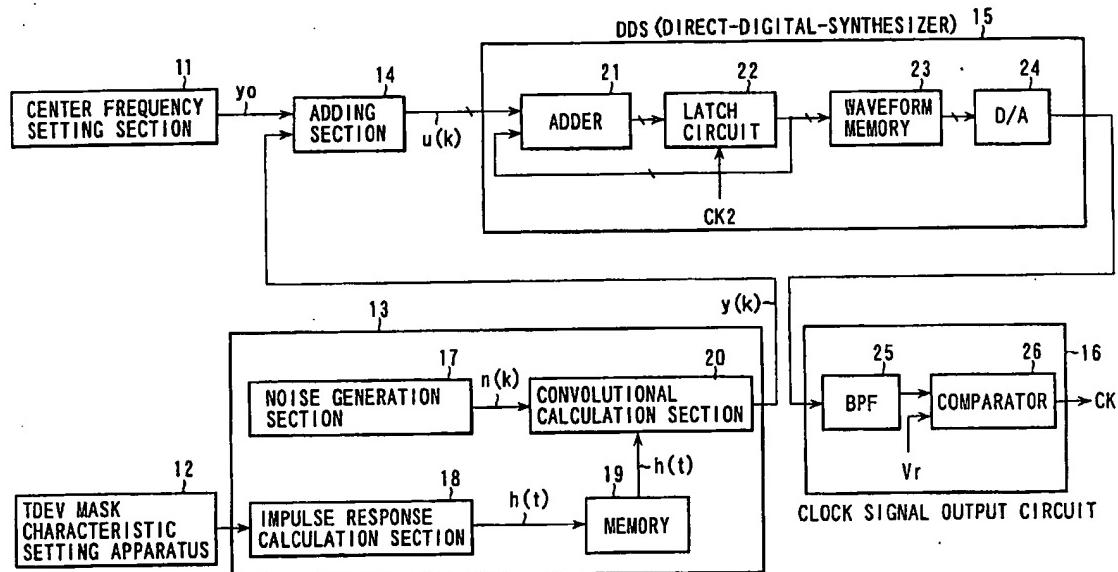
Publication Classification

(51) Int. Cl.⁷ G06F 1/04; G06F 1/06; G06F 1/08

(52) U.S. Cl. 713/500

(57) ABSTRACT

In a file, the TDEV mask data information including the TDEV mask data constituted by connecting a plurality of line segments and a calculation expression for forming the TDEV mask data, are stored in advance. A readout section reads out a predetermined TDEV mask data information from the file. A display section displays the line segment which is represented by the desired TDEV mask data information. An operating section inputs information for changing at least one of the start point and the characteristic value to the desired value with respect to the line segment to be represented by the desired TDEV mask data information. A TDEV mask data change section receives information inputted by the operating section and changes TDEV mask data information based on the calculation expression of the TDEV mask data information, and allows the display section to display the line segment represented by the changed TDEV mask data information.



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PALM INTRANET**Inventor Name Search Result**

Your Search was:

Last Name = UCHINO

First Name = MASAHIRO

Application#	Patent#	Status	Date Filed	Title	Inventor Name 4
10469224	Not Issued	030	08/27/2003	PHASE DETECTOR CAPABLE OF DETECTING AN ACCUMULATED VALUE OF PHASE DISPLACEMENT AT A HIGH SPEED AND FREQUENCY STABILITY MEASURING APPARATUS FOR ARBITRARY NOMINAL FREQUENCY USING THE SAME	UCHINO, MASAHIRO
09890441	Not Issued	030	07/25/2001	WONDER GENERATOR, DIGITAL LINE TESTER COMPRISING THE SAME, AND PHASE NOISE TRANSFER CHARACTERISTIC ANALYZER	UCHINO, MASAHIRO
09777437	6681235	150	02/06/2001	FREQUENCY SYNTHESIZER AND GAUSSIAN NOISE GENERATOR USING THE SAME	UCHINO, MASAHIRO
09314346	6509728	150	05/19/1999	SPECTRUM ANALYZER HAVING FUNCTION OF DISPLAYING AMPLITUDE PROBABILITY DISTRIBUTION EFFECTIVELY	UCHINO , MASAHIRO

Inventor Search Completed: No Records to Display.

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PALM INTRANET**Inventor Name Search Result**

Your Search was:

Last Name = ISHIBE

First Name = KAZUHIKO

Application#	Patent#	Status	Date Filed	Title	Inventor Name 5
<u>10736811</u>	Not Issued	030	12/15/2003	MEASURING APPARATUS AND MEASURING METHOD FOR PATTERN DEPENDENT JITTER	ISHIBE, KAZUHIKO
<u>09890441</u>	Not Issued	030	07/25/2001	WONDER GENERATOR, DIGITAL LINE TESTER COMPRISING THE SAME, AND PHASE NOISE TRANSFER CHARACTERISTIC ANALYZER	ISHIBE, KAZUHIKO
<u>09881926</u>	Not Issued	093	06/14/2001	WANDER GENERATOR HAVING ARBITRARY TDEV MASK CHARACTERISTIC SETTING APPARATUS	ISHIBE, KAZUHIKO
<u>09777437</u>	6681235	150	02/06/2001	FREQUENCY SYNTHESIZER AND GAUSSIAN NOISE GENERATOR USING THE SAME	ISHIBE, KAZUHIKO
<u>08490474</u>	5563921	150	06/14/1995	JITTER DETECTION APPARATUS USING DOUBLE-PLL STRUCTURE	ISHIBE , KAZUHIKO

Inventor Search Completed: No Records to Display.

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PALM INTRANET**Inventor Name Search Result**

Your Search was:

Last Name = AOKI

First Name = TAKASHI

Application#	Patent#	Status	Date Filed	Title	Inventor Name 51
<u>10864468</u>	Not Issued	020	06/10/2004	POWER SUPPLY CONTROL CIRCUIT FOR MEMORIES, METHOD THEREOF AND APPARATUS EQUIPPED WITH MEMORIES	AOKI, TAKASHI
<u>10855883</u>	Not Issued	020	05/28/2004	INFORMATION PROCESSOR, METHOD THEREFOR, PROGRAM THEREFOR, RECORDING MEDIUM STORING THE PROGRAM AND REPRODUCING DEVICE	AOKI, TAKASHI
<u>10804013</u>	Not Issued	030	03/19/2004	TRANSISTOR MANUFACTURING METHOD, ELECTROOPTICAL APPARATUS AND ELECTRONIC APPARATUS	AOKI, TAKASHI
<u>10750739</u>	Not Issued	020	12/30/2003	OCCUPANT RESTRAINT SYSTEM	AOKI, TAKASHI
<u>10742638</u>	Not Issued	030	12/19/2003	OCCUPANT RESTRAINT SYSTEM	AOKI, TAKASHI
<u>10742576</u>	Not Issued	020	12/19/2003	OCCUPANT RESTRAINT SYSTEM	AOKI, TAKASHI
<u>10739099</u>	Not Issued	030	12/19/2003	DRIVE CONTROL APPARATUS FOR HYBRID VEHICLE	AOKI, TAKASHI
<u>10716548</u>	Not Issued	030	11/20/2003	BACK LIGHT TYPE DISPLAY PANEL AND METHOD OF MANUFACTURING SAME	AOKI, TAKASHI
<u>10614296</u>	Not Issued	030	07/08/2003	OPTICALLY ACTIVE COMPOUND AND LIQUID CRYSTAL COMPOSITION CONTAINING THE COMPOUND	AOKI, TAKASHI

<u>10494893</u>	Not Issued	030	05/07/2004	DIE HEAD COATING, COATING DEVICE, AND METHOD OF MANUFACTURING DIE HEAD FOR COATING	AOKI, TAKASHI
<u>10491900</u>	Not Issued	020	04/16/2004	SLIDING SCREEN DOOR	AOKI, TAKASHI
<u>10420525</u>	Not Issued	041	04/22/2003	METHOD OF MANUFACTURING DEVICE, DEVICE, AND ELECTRONIC APPARATUS	AOKI, TAKASHI
<u>10420521</u>	Not Issued	041	04/22/2003	HIGH ORDER SILANE COMPOSITION, AND METHOD OF FORMING SILICON FILM USING THE COMPOSITION	AOKI, TAKASHI
<u>10420359</u>	Not Issued	093	04/22/2003	DEVICE, METHOD OF MANUFACTURING DEVICE, ELECTRO-OPTIC DEVICE, AND ELECTRONIC EQUIPMENT	AOKI, TAKASHI
<u>10383511</u>	Not Issued	071	03/10/2003	VEHICLE CONTROL APPARATUS	AOKI, TAKASHI
<u>10376459</u>	Not Issued	093	03/03/2003	CONTROL DEVICE FOR VEHICLE	AOKI, TAKASHI
<u>10344131</u>	Not Issued	041	04/03/2003	LACTIC ACID POLYMER AND PROCESS FOR PRODUCING THE SAME	AOKI, TAKASHI
<u>10328139</u>	6655765	150	12/26/2002	REFRIGERATOR DOOR OPENER	AOKI, TAKASHI
<u>10295025</u>	Not Issued	093	11/15/2002	PRINTER UNIT AND PRINTING APPARATUS INCORPORATING THE SAME	AOKI, TAKASHI
<u>10253653</u>	Not Issued	161	09/25/2002	MEASURING METHOD AND MEASURING APPARATUS, EXPOSURE METHOD AND EXPOSURE APPARATUS	AOKI, TAKASHI
<u>10167299</u>	Not Issued	071	06/11/2002	OCCUPANT RESTRAINT SYSTEM	AOKI, TAKASHI
<u>10167234</u>	Not Issued	061	06/11/2002	OCCUPANT RESTRAINT SYSTEM	AOKI, TAKASHI
<u>10164298</u>	6796576	150	06/06/2002	OCCUPANT RESTRAINT SYSTEM	AOKI, TAKASHI
<u>10164294</u>	Not Issued	092	06/06/2002	OCCUPANT RESTRAINT SYSTEM	AOKI, TAKASHI
<u>10157765</u>	6604773	150	05/29/2002	SUN-VISOR OF A VEHICLE EQUIPPING AN OCCUPANT RESTRAINT SYSTEM	AOKI, TAKASHI

<u>10129972</u>	6762572	150	05/22/2002	ELECTRIC MACHINE, ELECTRIC MACHINE SYSTEM	AOKI, TAKASHI
<u>10110208</u>	Not Issued	161	04/18/2002	ELECTRIC VEHICLE AND METHOD FOR MANAGING THE SAME	AOKI, TAKASHI
<u>10069532</u>	Not Issued	071	03/06/2002	ELECTRIC DEVICE WITH TIMER MEANS	AOKI, TAKASHI
<u>10069531</u>	Not Issued	094	03/06/2002	ELECTRIC VEHICLE	AOKI, TAKASHI
<u>10041595</u>	6789438	150	01/10/2002	ENGINE STARTING APPARATUS	AOKI, TAKASHI
<u>10030822</u>	Not Issued	041	01/16/2002	EXPOSURE METHOD AND SYSTEM	AOKI, TAKASHI
<u>10030165</u>	6741065	150	01/30/2002	ELECTRIC DEVICE AND METHOD FOR CHARGING AND DISCHARGING BATTERY UNIT OF THE SAME	AOKI, TAKASHI
<u>10002755</u>	Not Issued	041	10/19/2001	DISPLAY PANEL WITH ASPECT RATIO OF MATRIX-ARRAYED PIXELS SET TO PREDETERMINED VALUE, AND DISPLAY DEVICE USING SUCH DISPLAY PANEL	AOKI, TAKASHI
<u>09913328</u>	6707529	150	10/15/2001	EXPOSURE METHOD AND APPARATUS	AOKI, TAKASHI
<u>09890441</u>	Not Issued	030	07/25/2001	WONDER GENERATOR, DIGITAL LINE TESTER COMPRISING THE SAME, AND PHASE NOISE TRANSFER CHARACTERISTIC ANALYZER	AOKI, TAKASHI
<u>09863497</u>	6714252	150	05/23/2001	IMAGE SIGNAL PROCESSING APPARATUS AND DIGITAL SIGNAL PROCESSING METHOD	AOKI, TAKASHI
<u>09863460</u>	6495706	150	05/24/2001	PROCESS FOR PRODUCING HYDROXYCARBOXYLIC ACID ESTER	AOKI, TAKASHI
<u>09841005</u>	6512255	150	04/25/2001	SEMICONDUCTOR PRESSURE SENSOR DEVICE HAVING SENSOR CHIP COVERED WITH PROTECTIVE MEMBER	AOKI, TAKASHI
<u>09820969</u>	6617076	150	03/30/2001	SEPARATOR FOR NONAQUEOUS SECONDARY BATTERY AND NONAQUEOUS SECONDARY BATTERY USING THE SAME	AOKI, TAKASHI

<u>09819631</u>	6614504	150	03/29/2001	EXPOSURE APPARATUS, EXPOSURE METHOD, AND DEVICE MANUFACTURING METHOD	AOKI, TAKASHI
<u>09816226</u>	6571057	150	03/26/2001	OPTICAL INSTRUMENT, GAS REPLACEMENT METHOD AND CLEANING METHOD OF OPTICAL INSTRUMENT, EXPOSURE APPARATUS, EXPOSURE METHOD AND MANUFACTURING METHOD FOR DEVICES	AOKI, TAKASHI
<u>09813367</u>	6554542	150	03/20/2001	STRESS TRANSMISSION DEVICE, AND STRUCTURE AND METHOD OF CONSTRUCTING THE SAME	AOKI, TAKASHI
<u>09783562</u>	6731721	150	02/15/2001	TELEPHONE EXCHANGE APPARATUS	AOKI, TAKASHI
<u>09744913</u>	Not Issued	161	04/20/2001	REFRIGERATOR DOOR OPENER	AOKI, TAKASHI
<u>09706732</u>	6617304	150	11/07/2000	METHOD FOR PRODUCING MACROCYCLIC LACTONE	AOKI, TAKASHI
<u>09662923</u>	Not Issued	168	09/15/2000	SEMICONDUCTOR PRESSURE SENSOR DEVICE HAVING SENSOR CHIP COVERED WITH PROTECTIVE MEMBER	AOKI, TAKASHI
<u>09642100</u>	6401012	150	08/21/2000	VEHICLE CONTROL APPARATUS	AOKI, TAKASHI
<u>09638069</u>	6397808	150	08/15/2000	ENGINE STARTER HAVING TRACTION-DRIVE TYPE REDUCTION GEAR AND TORQUE TRANSMITTING DEVICE FOR LINKING THE REDUCTION GEAR AND DRIVEN SHAFT OF ENGINE	AOKI, TAKASHI
<u>09628019</u>	6390947	150	07/28/2000	HYDRAULIC CIRCUIT USED FOR AUTOMATIC TRANSMISSION OF VEHICLE HAVING AUTOMATIC ENGINE-STOP SYSTEM, AND OIL-PRESSURE CONTROL SYSTEM AND METHOD	AOKI, TAKASHI
<u>09541689</u>	6293581	150	04/03/2000	OCCUPANT RESTRAINT DEVICE	AOKI, TAKASHI
<u>09533972</u>	6386577	150	03/23/2000	SIDE-COLLISION AIR BAG DEVICE	AOKI, TAKASHI

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3	BRS	557	375/145	USPAT; US-PGPUB	2004/10/02 11:26		0	
4	BRS	746	375/146	USPAT; US-PGPUB	2004/10/02 11:27		0	
5	BRS	247	375/268	USPAT; US-PGPUB	2004/10/02 11:27		0	
6	BRS	368	375/269	USPAT; US-PGPUB	2004/10/27 14:12		0	
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13	BRS	623	375/227	USPAT; US-PGPUB; EPO; DERWENT	2004/10/27 14:13		0	
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15	BRS	567	375/145	USPAT; US-PGPUB; EPO; DERWENT	2004/10/27 14:18		0	
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20	BRS	0	wander\$3 same amplitude same spectrum same sequence same match\$3 and 375/145	USPAT; US-PGPUB; EPO; DERWENT	2004/10/27 14:17			0
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24	BRS	0	(wander\$3 same amplitude same spectrum same sequence same match\$3) and 375/368	USPAT; US-PGPUB; EPO; DERWENT	2004/10/27 14:41			0
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26	BRS	0	(wander\$3 same amplitude same spectrum same sequence same match\$3) and 375/371	USPAT; US-PGPUB; EPO; DERWENT	2004/10/27 14:41			0